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Lamp type	Lumens watt	Improve- ment over tungsten
Tungsten lamp  Modern fluorescent lamp  Mercury halide lamp  High pressure sodium lamp  Low pressure sodium lamp	12 85 100 110 180	X1 X7 X8 X9 X15

- (36) Industrial Buildings Heating—Includes measures to improve the energy conservation of industrial buildings such as: fixing holes in roofs, walls and windows; fitting flexible doors, fitting controls to heating systems; use of "economizer units" which circulate hot air back down from roof level to ground level; use of controlled ventilation; insulation of walls and roof; use of "optimisers" or optimum start controls in heating systems, so that the heating switchon is dictated by actual temperature conditions rather than simply by time.
- (37) Hull Cleaning and Antifouling Coating—Includes measures to reduce energy consumption through periodic cleaning of hulls and propellers or through the use of antifouling coatings.
  - (38) [Reserved]
- (39) Building Temperature Restrictions on Thermostat Setting for Heating, Cooling and Hot Water—Includes enforcement of suggested restriction levels: 65 degrees for heating, 78 degrees for cooling, and 105 degrees or ban for hot water.
- (40) Such other measures as DOE may from time-to-time add to this appendix, or as the Federal agency concerned may find to be energy-saving or efficient.

# APPENDIX D TO PART 436—ENERGY PROGRAM CONSERVATION ELEMENTS

- (a) In all successful energy conservation programs, certain key elements need to be present. The elements listed below must be incorporated into each agency conservation program and must be reflected in the 10-year plan prescribed in §436.102. Those organizations that have already developed programs should review them to determine whether the present management systems incorporate these elements.
- (1) Top Management Control. Top management must have a personal and sustained commitment to the program, provide active direction and motivation, and require regular review of overall energy usage at senior staff meetings.
- (2) Line Management Accountability. Line managers must be accountable for the energy conservation performance of their organizations and should participate in establishing realistic goals and developing strategies and budgets to meet these goals.
- (3) Formal Planning. An overall 10-year plan for the period 1980-1990 must be developed and formalized which sets forth perform-

- ance-oriented conservation goals, including the categorized reduction in rates of energy consumption that the program is expected to realize. The plan will be supplemented by guidelines enumerating specific conservation procedures that will be followed. These procedures and initiatives must be life cycle cost-effective as well as energy efficient.
- (4) Goals. Goals must be established in a measurable manner to answer questions of "Where are we?" "Where do we want to go?" "Are we getting there?" and "Are our initiatives for getting there life cycle cost-effective?"
- (5) Monitoring. Progress must be reviewed periodically both at the agency headquarters and at local facility levels to identify program weakness or additional areas for conservation actions. Progress toward achievement of goals should be assessed, and explanations should be required for non-achievement or unusual variations in energy use. Monitoring should include personal inspections and staff visits, management information reporting and audits.
- (6) Using Technical Expertise. Personnel with adequate technical background and knowledge of programmatic objectives should be used to help management set technical goals and parameters for efficient planning and implementation of energy conservation programs. These technicians should work in conjunction with the line managers who are accountable for both mission accomplishment and energy conservation.
- (7) Employee Awareness. Employees must gain an awareness of energy conservation through formal training and employee information programs. They should be invited to participate in the process of developing an energy conservation program, and to submit definitive suggestions for conservation of energy
- (8) Energy Emergency Planning. Every energy management plan must provide for programs to respond to contingencies that may occur at the local, state or National level. Programs must be developed for potential energy emergency situations calling for reductions of 10 percent, 15 percent and 20 percent for up to 12 months. Emergency plans must be tested to ascertain their effectiveness.
- (9) Budgetary and Fiscal Support. Resources necessary for the energy conservation program must be planned and provided for, and the fiscal systems adjusted to support energy management investments and information reporting.
- (10) Environmental Considerations. Each agency shall fulfill its obligations under the National Environmental Policy Act in developing its plan.

# 716

# PART 440—WEATHERIZATION AS-SISTANCE FOR LOW-INCOME PERSONS

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APPENDIX A TO PART 440—STANDARDS FOR WEATHERIZATION MATERIALS

AUTHORITY: 42 U.S.C. 6861  $et\ seq.$ ; 42 U.S.C. 7101  $et\ seq.$ 

SOURCE: 49 FR 3629, Jan. 27, 1984, unless otherwise noted.

## § 440.1 Purpose and scope.

This part implements a weatherization assistance program to increase the energy efficiency of dwellings owned or occupied by low-income persons or to provide such persons renewable energy systems or technologies, reduce their total residential expenditures, and improve their health and safety, especially low-income persons who are particularly vulnerable such as the elderly, persons with disabilities, families with children, high residential energy users, and households with high energy burden.

[65 FR 77217, Dec. 8, 2000, as amended at 71 FR 35778, June 22, 2006]

#### § 440.2 Administration of grants.

Grant awards under this part shall comply with applicable law including, without limitation, the requirements of:

(a) Executive Order 12372 entitled "Intergovernmental Review of Federal

Programs", 48 FR 3130, and the DOE Regulation implementing this Executive Order entitled "Intergovernmental Review of Department of Energy Programs and Activities" (10 CFR part 1005):

- (b) Office of Management and Budget Circular A-97, entitled "Rules and Regulations Permitting Federal Agencies to Provide Specialized or Technical Services to State and Local Units of Government under Title III of the Inter-Governmental Coordination Act of 1968;"
- (c) Unless in conflict with provisions of this part, the DOE Financial Assistance Rule (10 CFR part 600); and
- (d) Such other procedures applicable to this part as DOE may from time to time prescribe for the administration of financial assistance.

 $[49\ FR\ 3629,\ Jan.\ 27,\ 1984,\ as\ amended\ at\ 75\ FR\ 11422,\ Mar.\ 11,\ 2010]$ 

# § 440.3 Definitions.

As used in this part:

Act means the Energy Conservation in Existing Buildings Act of 1976, as amended, 42 U.S.C. 6851 et seq.

Assistant Secretary means the Assistant Secretary for Conservation and Renewable Energy or official to whom the Assistant Secretary's functions may be redelegated by the Secretary.

Base Allocation means the fixed amount of funds for each State as set forth in §440.10(b)(1).

Base temperature means the temperature used to compute heating and cooling degree days. The average daily outdoor temperature is subtracted from the base temperature to compute heating degree days, and the base temperature is subtracted from the average daily outdoor temperature to compute cooling degree days.

Biomass means any organic matter that is available on a renewable or recurring basis, including agricultural crops and trees, wood and wood wastes and residues, plants (including aquatic plants), grasses, residues, fibers, and animal wastes, municipal wastes, and other waste materials.

CAA means a Community Action Agency.

Capital-Intensive furnace or cooling efficiency modifications means those